

Serial Number: 09/715,962

 Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was "wrapped" down to the next line. OS/DO Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:Seqr 46 - corrected amino acid nos.

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962

DATE: 12/14/2000
TIME: 19:48:26

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12142000\I715962.raw

3 <110> APPLICANT: Bayer Aktiengesellschaft
5 <120> TITLE OF INVENTION: GABA-B-Rezeptoren
7 <150> FILE REFERENCE: DE A 34 074
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/715,962
C--> 10 <141> CURRENT FILING DATE: 2000-11-17
12 <150> PRIOR APPLICATION NUMBER: DE 199 55 408.0
13 <151> PRIOR FILING DATE: 1999-11-18
15 <160> NUMBER OF SEQ ID NOS: 6
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2523
21 <212> TYPE: DNA
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25 <221> NAME/KEY: CDS
26 <222> LOCATION: (1)..(2520)
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30 Met Arg Lys Asp Met Thr Ser Asp Gly Ala Val Thr Phe Trp Ile Phe
31 1 5 10 15
33 ttg ctt tgc tta atc gac tcc ccc ccc ccc ggg ggc gtc ggg 96
34 Leu Leu Cys Leu Ile Ala Ser Pro His Leu Gln Gly Gly Val Ala Gly
35 20 25 30
37 aag ccc gat gaa ctg ccc atc ggc ggc atc ttt ccc atc gcc ggc aea 144
38 Arg Pro Asp Glu Leu His Ile Gly Gly Ile Phe Pro Ile Ala Gly Lys
39 35 40 45
41 gga gga tgg ccc ggc ggc cag ccc ttt atc ccc aca aca atc gcc 192
42 Gly Gly Trp Gln Gly Gly Gln Ala Cys Met Pro Ala Thr Arg Leu Ala
43 50 55 60
45 ttc gat gat gtc aac aag cag ccc aat ccc ccc ggc ttc aag ctc 240
46 leu Asp Asp Val Asn Lys Gln Pro Asn Leu Leu Pro Gly Phe Lys Leu
47 65 70 75 80
49 atc ccc ccc aac gac aac gac gac ttt gat gcc gcc gcc aac 288
50 Ile Leu His Ser Asn Asp Ser Glu Cys Glu Pro Gly Leu Gly Ala Ser
51 85 90 95
53 gtc atg tac aat ccc tcc tat aat aac ccc ccc aac ccc atg ccc ttc 336
54 Val Met Tyr Asn Leu Leu Tyr Asn Lys Pro Gln Lys Leu Met Leu Leu
55 100 105 110
57 gca gca tgc aac aac gtc tcc acc act gta gcc gac gtc gcc aac atg 384
58 Ala Gly Cys Ser Thr Val Cys Thr Thr Val Ala Glu Ala Ala Lys Met
59 115 120 125
61 Lgg aat cta att gtc ctc tcc tcc ggg gcc tcc aat ccc gat ccc gtc 432
62 Trp Asn Leu Ile Val Leu Cys Tyr Gly Ala Ser Ser Pro Ala Leu Ser
63 130 135 140
65 gat ccc aaa ccc ttc ccc act cta ttc ccc acc ccc ccc tcc tcc gcc aac 480
66 Asp Arg Lys Arg Phe Pro Thr Leu Phe Arg Thr His Pro Ser Ala Thr
67 145 150 155 160

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73	ccg	gtg	gac	att	ctg	caq	caq	ccg	gag	gag	atc	tct	ata	tcg	acc	576	
74	Arg	Val	Ala	Ile	Ieu	Gln	Ala	Ala	Glu	Glu	Val	Phe	Ile	Ser	Thr	Val	
75	180							185								190	
77	ccg	gat	ctc	ccg	aat	cca	tgc	atq	ccg	act	ggc	att	aaa	atc	gtg	act	624
78	Glu	Asp	Leu	Glu	Asn	Arg	Cys	Met	Glu	Ala	Gly	Val	Glu	Ile	Val	Thr	
79	195							200								205	
81	aaa	caa	caa	ttt	caa	ccg	acc	gac	ggc	ggc	ccg	aat	tgt	ccg	872		
82	Arg	Gln	Ser	Phe	Ieu	Ser	Asp	Pro	Thr	Asp	Ala	Val	Arg	Asn	Leu	Arg	
83	210							215								220	
85	ccg	ccg	gat	ccg	ccg	aat	att	atq	ggc	ctc	ttc	tat	gtg	gtg	ccg	720	
86	Arg	Gln	Asp	Ala	Arg	Ile	Ile	Val	Gly	Ieu	Phe	Tyr	Val	Val	Ala	Ala	
87	225							230								240	
89	aaa	ccg	gtg	ctc	tgc	gaa	atq	tac	aaa	ccg	ccg	ctt	tat	ccg	ccg	act	768
90	Arg	Arg	Val	Leu	Cys	Glu	Met	Tyr	Lys	Gln	Gln	Ieu	Tyr	Gly	Arg	Ala	
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93	cat	gtg	tgg	ttc	ttt	att	ggc	tgg	tac	ccg	gac	aat	tgg	tac	ccg	gtg	816
94	His	Val	Trp	Phe	Phe	Ile	Gly	Trp	Tyr	Glu	Asp	Asn	Trp	Tyr	Glu	Val	
95	260							265								270	
97	aat	ctg	aaa	ccg	gag	ggc	atc	acc	tgc	ccg	atg	ccg	ata			864	
98	Asn	Leu	Lys	Ala	Glu	Gly	Ile	Cys	Thr	Val	Glu	Gln	Met	Arg	Ile		
99	275							280								285	
101	gtt	ccg	caa	caa	cat	ctg	aca	acc	gaa	ccg	cc	atg	tgg	aat	ccg	aa	912
102	Ala	Ala	Glu	His	Leu	Thr	Thr	Glu	Ala	Leu	Met	Trp	Asn	Gln	Asn		
103	290							295								300	
105	aat	ccg	aca	act	ata	tcc	ggg	atg	act	ccg	ccg	aat	ccg	ccg	ccg	960	
106	Asn	Gln	Thr	Thr	Ile	Ser	Gly	Met	Thr	Ala	Glu	Glu	Phe	Arg	His	Arg	
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109	ctg	aat	ccg	ccg	ata	atc	ccg	ccg	ccg	tac	ccg	ccg	ccg	ccg	ccg	1098	
110	Leu	Asn	Gln	Ala	Ile	Ile	Glu	Glu	Gly	Tyr	Asp	Ile	Asn	His	Asp	Arg	
111								325								330	
113	tat	ccg	ccg	ccg	tat	ccg	1056										
114	Tyr	Pro	Glu	Gly	Tyr	Gln	Glu	Ala	Pro	Leu	Ala	Tyr	Asp	Ala	Val	Trp	
115	340							345								350	
117	atg	gtg	gtt	gtt	gtt	ttc	acc	acc	atq	ccg	ccg	ttt	cc	acc	ccg	1104	
118	Ser	Val	Ala	Leu	Ala	Phe	Asn	Thr	Met	Glu	Arg	Leu	Thr	Thr	Gly		
119	355							360								365	
121	aag	aaa	tct	ctg	ccg	1152											
122	lys	lys	Ser	Ile	Arg	Asp	Phe	Thr	Tyr	Thr	Asp	lys	Glu	Ile	Ala	Asp	
123	370							375								380	
125	gaa	atc	tac	ccg	1200												
126	Glu	Ile	Tyr	Ala	Ala	Met	Asn	Ser	Thr	Gln	Phe	Ieu	Gly	Val	Ser	Gly	
127	385							390								395	
129	gtg	gtg	gac	ttc	atg	ccg	1248										
130	Val	Val	Ala	Phe	Ser	Ser	Gln	Gly	Asp	Arg	Ile	Ala	Leu	Thr	Gln	Ile	
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133	gaa	ccg	atg	ata	gac	ggc	aag	tac	ccg	act	1296						

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137	cac	tta	aat	acc	cta	tcc	tgg	tta	aat	act	caa	cac	tgg	att	gtt	ggc	1344	
138	Gln	Leu	Asp	Asn	Leu	Ser	Trp	Leu	Lys	Thr	Glu	Gln	Trp	Ile	Gly	Gly		
139				435					440				445					
141	aaq	gtt	cct	caa	cat	gtt	ccc	acc	cat	gtt	cta	ccg	acc	gtg		1392		
142	Lys	Val	Pro	Gln	Asp	Ala	thr	ile	Val	Thr	His	Val	Leu	Arg	Thr	Val		
143				450					455				460					
145	tcc	tcc	caa	tta	ttt	gtt	tgc	atq	tgc	acc	ata	tcc	act	tgt	ggc	ata	1410	
146	Ser	Leu	Pro	Leu	Phe	Val	Cys	Met	Cys	thr	Ile	Ser	Ser	Cys	Gly	Ile		
147				465					470				475			480		
149	tcc	gtt	ggc	tcc	ggc	tcc	atc	atc	tcc	aat	ata	tgg	aat	aaq	cat	aaa	1486	
150	Phe	Val	Ala	Phe	Ala	Leu	Ile	Ile	Phe	Asp	Ile	Trp	Asn	Lys	His	Arg		
151				485					490				495					
153	aaq	gtt	ata	caa	tcc	tcc	cat	ccc	gtt	tgc	aat	acg	ata	atq	tta	ttt	1536	
154	Arg	Val	Ile	Gln	Ser	Ser	His	Pro	Val	Cys	Asn	Thr	Ile	Met	Leu	Phe		
155				500					505				510					
157	gtt	gtc	atc	atc	tgt	cta	ata	tct	gtc	atc	tta	ctg	ggc	atc	qac	aaq	1584	
158	Gly	Val	Ile	Ile	Cys	Leu	Ile	Ser	Val	Ile	Leu	Leu	Gly	Ile	Asp	Gly		
159				515					520				525					
161	ccg	ttt	gtc	acg	ccc	gag	gaa	tat	ccc	aaa	ata	tgt	caa	ggc	ccg	gtt	1632	
162	Arg	Phe	Val	Ser	Pro	Glu	Glu	Tyr	Pro	Lys	Ile	Cys	Gln	Ala	Arg	Ala		
163				530					535				540					
165	tgg	tta	cta	tcc	acc	ggt	ttt	aca	cta	gtc	tac	gtt	gtt	atg	tcc	atc	1680	
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167				545					550				555			560		
169	aaq	gtc	tgg	gtt	gtc	atc	gtt	tcc	aca	aca	aaa	gtt	aaa	act	qac	ccg	1728	
170	Lys	Val	Trp	Arg	Val	His	Arg	Phe	Thr	Thr	Lys	Ala	Lys	Thr	Asp	Pro		
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173	aaq	aaa	aaa	gtt	gtg	aaa	ctt	tgg	aaa	act	atc	atg	gtt	tgg	ggg	cta	1776	
174	Lys	Lys	Lys	Gln	Pro	Trp	Lys	Leu	Tyr	Thr	Met	Val	Ser	Gly	Leu			
175				580					585				590					
177	tta	tcc	ata	gtt	tta	gtg	ata	tta	ctc	tca	tgg	aaa	atc	ttt	gtt	ccg	1824	
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181	ctg	ccg	cgt	tat	ctc	caa	aca	tcc	caa	gtt	caa	gtt	tcc	atc	tcc	atc	1872	
182	Leu	Gln	Arg	Tyr	Ile	Glu	Thr	Phe	Pro	Leu	Glu	Asp	Pro	Val	Ser	Thr		
183				610					615				620					
185	act	gtt	gtt	att	aaa	ata	ctg	caa	gtt	gag	ctt	gag	cat	tgt	gaa	agt	caa	1920
186	Thr	Asp	Asp	Ile	Gly	Ile	Arg	Pro	Glu	Leu	Glu	Ris	Cys	Glu	Ser	Gln		
187				625					630				635			640		
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190	Arg	Asn	Ser	Met	Trp	Leu	Gly	Ile	Val	Tyr	Gly	Phe	Lys	Gly	Ile			
191				645					650				655					
193	ctg	gtg	ttt	ggc	ctc	ttc	ttg	gtt	gtt	gtt	gtc	ggc	ttc	att	aaa	gtt	2016	
194	Leu	Val	Phe	Gly	Ile	Phe	Leu	Ala	Tyr	Glu	Thr	Arg	Ser	Ile	Lys	Val		
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197	aaa	cag	atc	aac	gtt	ata	gtt	tcc	gtt	2064								
198	Lys	Gln	Ile	Asn	Asp	Ser	Arg	Tyr	Val	Gly	Met	Ser	Ile	Tyr	Asn	Val		

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356	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5034
357	1465	1470	1475	
358	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5072
359	1475	1480	1485	
360	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5110
361	1485	1490	1495	
362	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5148
363	1495	1500	1505	
364	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5186
365	1505	1510	1515	
366	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5224
367	1515	1520	1525	
368	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5262
369	1525	1530	1535	
370	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5300
371	1535	1540	1545	
372	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5338
373	1545	1550	1555	
374	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5376
375	1555	1560	1565	
376	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5414
377	1565	1570	1575	
378	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5452
379	1575	1580	1585	
380	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5490
381	1585	1590	1595	
382	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5528
383	1595	1600	1605	
384	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5566
385	1605	1610	1615	
386	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5604
387	1615	1620	1625	
388	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5642
389	1625	1630	1635	
390	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5680
391	1635	1640	1645	
392	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5718
393	1645	1650	1655	
394	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5756
395	1655	1660	1665	
396	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5794
397	1665	1670	1675	
398	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5832
399	1675	1680	1685	
400	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5870
401	1685	1690	1695	
402	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5908
403	1695	1700	1705	
404	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5946
405	1705	1710	1715	
406	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			5984
407	1715	1720	1725	
408	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6022
409	1725	1730	1735	
410	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6060
411	1735	1740	1745	
412	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6098
413	1745	1750	1755	
414	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6136
415	1755	1760	1765	
416	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6174
417	1765	1770	1775	
418	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6212
419	1775	1780	1785	
420	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6250
421	1785	1790	1795	
422	Val Val Leu Cys Leu Ile Thr Ala Pro Val Gly Met Val Ile Ala Ser			6288
423	1795	1800	1805	
424				

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/715,962
 DATE: 12/14/2000
 TIME: 19:48:26

Input Set : A:\Pto.amc
 Output Set: B:\CRF3\12142000\I715962.raw

267 100 105 110
 268 Ala Cys Ser Thr Val Cys Thr Thr Val Ala Glu Ala Ala Lys Met
 270 115 120 125
 272 Itp Asn Leu Ile Val Leu Cys Tyr Gly Ala Ser Ser Pro Ala Leu Ser
 273 130 135 140
 275 Asp Arg Lys Arg Phe Pro Thr Leu Phe Arg Thr His His Pro Ser Ala Thr
 276 145 150 155 160
 278 Val His Asn Pro Thr Arg Ile Lys Leu Met Lys Lys Phe Gly Trp Ser
 279 165 170 175
 281 Arg Val Ala Ile Leu Gln Glu Ala Glu Glu Val Phe Ile Ser Thr Val
 282 180 185 190
 284 Glu Asp Leu Glu Asn Arg Cys Met Glu Ala Gly Val Glu Ile Val Phe
 285 195 200 205
 287 Arg Gln Ser Phe Leu Ser Asp Pro Thr Asp Ala Val Arg Asn Leu Arg
 288 210 215 220
 290 Arg Gln Asp Ala Arg Ile Ile Val Gly Leu Phe Tyr Val Val Ala Ala
 291 225 230 235 240
 293 Arg Arg Val Leu Cys Glu Met Tyr Lys Gln Gln Leu Tyr Gly Arg Ala
 294 245 250 255
 296 His Val Trp Phe Phe Ile Gly Trp Tyr Glu Asp Asn Trp Tyr Glu Val
 297 260 265 270
 299 Asn Leu Lys Ala Glu Gly Ile Thr Cys Thr Val Gln Gln Met Arg Ile
 300 275 280 285
 302 Ala Ala Glu Gly His Leu Thr Thr Glu Ala Leu Met Trp Asn Gln Asn
 303 290 295 300
 305 Asn Gln Thr Thr Ile Ser Gly Met Thr Ala Glu Glu Phe Arg His Arg
 306 305 310 315 320
 308 Leu Asn Gln Ala Leu Ile Glu Glu Gly Tyr Asp Ile Asn His Asp Arg
 309 325 330 335
 311 Tyr Pro Glu Gly Tyr Gln Gln Ala Pro Leu Ala Tyr Asp Ala Val Trp
 312 340 345 350
 314 Ser Val Ala Leu Ala Phe Asn Lys Thr Met Glu Arg Leu Thr Thr Gly
 315 355 360 365
 317 Lys Lys Ser Leu Arg Asp Phe Thr Tyr Thr Asp Lys Gln Ile Ala Asp
 318 370 375 380
 320 Glu Ile Tyr Ala Ala Met Asn Ser Thr Gln Phe Leu Gly Val Ser Gly
 321 385 390 395 400
 323 Val Val Ala Phe Ser Ser Gln Gly Asp Arg Ile Ala Leu Thr Gln Ile
 324 405 410 415
 326 Glu Gln Met Ile Asp Gly Lys Tyr Glu Lys Leu Gly Tyr Tyr Asp Thr
 327 420 425 430
 329 Glu Leu Asp Asn Leu Ser Trp Leu Asn Thr Glu Gln Trp Ile Gly Gly
 330 435 440 445
 332 Lys Val Pro Gln Asp Arg Thr Ile Val Thr His Val Leu Arg Thr Val
 333 450 455 460
 335 Ser Leu Pro Leu Phe Val Cys Met Cys Thr Ile Ser Ser Cys Gly Ile
 336 465 470 475 480
 338 Phe Val Ala Phe Ala Leu Ile Ile Phe Asn Ile Trp Asn Lys His Arg
 339 485 490 495

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/715,962 DATE: 12/14/2000
TIME: 19:48:27

Input Set : A:\Pto.amc
Output Set: N:\Crf3\12142000\I715962.raw

L:9 M:270 C: Current Application Number differs. Replaced Application Number
L:10 M:271 C: Current Filing Date differs. Replaced Current Filing Date

OIE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962

DATE: 12/05/2000
TIME: 15:14:42

Input Set: A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

Does Not Comply
Corrected Diskette Needed

3 <101> APPLICANT: Bayer Aktiengesellschaft
5 <102> TITLE OF INVENTION: GABA-B-Rezeptoren
7 <103> FILE REFERENCE: Le A 34 074
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/715,962
C--> 10 <141> CURRENT FILING DATE: 2000-11-17
12 <150> PRIOR APPLICATION NUMBER: DE 199 55 408.0
13 <151> PRIOR FILING DATE: 1999-11-18
15 <152> NUMBER OF SEQ ID NOS: 6
17 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

728 <210> SEQ ID NO: 4
729 <211> LENGTH: 1220
730 <212> TYPE: PRJ
731 <213> ORGANISM: Drosophila melanogaster
733 <400> SEQUENCE: 4
734 Met Phe Arg Pro Ser Trp Phe Pro Ala Ser Leu Leu Phe Leu Leu
735 1 5 10 15
737 Ieu Trp Ser Thr Ala Cys Gly Arg Thr Ala Lys Arg Ser Asp Val Tyr
738 20 25 30
740 Ile Ala Gly Phe Phe Pro Tyr Gly Asp Gly Val Glu Asn Ser Tyr Thr
741 35 40 45
743 Gly Arg Gly Val Met Pro Ser Val Lys Ieu Ala Leu Gly His Val Asn
744 50 55 60
746 Gln His Gly Lys Ile Leu Ala Asn Tyr Arg Leu His Met Trp Trp Asn
747 65 70 75 80
749 Asp Thr Gln Cys Asn Ala Ala Val Gly Val Lys Ser Phe Phe Asp Met
750 85 90 95
752 Met His Ser Gly Pro Asn Lys Val Met Ieu Phe Gly Ala Ala Cys Thr
753 100 105 110
755 His Val Thr Asp Pro Ile Ala Lys Ala Ser Lys His Trp His Leu Thr
756 115 120 125
758 Gln Leu Ser Tyr Ala Asp Thr His Pro Met Phe Thr Lys Asp Ala Phe
759 130 135 140
761 Pro Asn Phe Phe Arg Val Val Pro Ser Glu Asn Ala Phe Asn Ala Pro
762 145 150 155 160
764 Arg Leu Ala Ieu Leu Lys Glu Phe Asn Trp Thr Arg Val Gly Thr Val
765 165 170 175
767 Tyr Gln Asn Glu Pro Arg Tyr Ser Ieu Pro His Asn His Met Val Ala
768 180 185 190
770 Asp Leu Asp Ala Met Glu Val Glu Val Val Glu Thr Gln Ser Phe Val
771 195 200 205
773 Asn Asp Val Ala Glu Ser Leu Lys Lys Leu Arg Glu Lys Asp Val Arg
774 210 215 220
776 Ile Ile Leu Gly Asn Phe Asn Glu His Phe Ala Arg Lys Ala Phe Cys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962
DATE: 12/06/2006
TIME: 15:14:12

Input Set : A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

777	225	230	235	240
780	Cle Ala Tyr Lys Ieu Asp Met Tyr Gly Arg Ala Tyr Gln Itp Ieu Ile	245	250	255
783	Met Ala Thr Tyr Ser Itr Asp Itp Itp Asn Val Thr Gln Asp Ser Glu	260	265	270
785	Cys Ser Val Glu Glu Ile Ala Thr Ala Ieu Glu Gly Ala Ile Ieu Val	275	280	285
788	Asp Ieu Leu Pro Ieu Ser Thr Ser Gly Asp Ile Thr Val Ala Gly Ile	290	295	300
791	Ihr Ala Asp Glu Tyr Ieu Val Glu Tyr Asp Arg Ieu Arg Gly Ihr Glu	310	315	320
792	345	340	345	350
794	Tyr Ser Asp Phe His Gly Tyr Thr Tyr Asp Gly Ile Itp Ala Ala Ala	325	330	335
795	355	360	365	370
797	Leu Ala Ile Gln Tyr Val Ala Glu Lys Arg Glu Asp Ieu Ieu Thr His	370	375	380
798	340	345	350	355
800	Phe Asp Tyr Ala Val Lys Asp Itp Glu Ser Val Phe Ieu Glu Ala Ieu	385	390	395
801	355	360	365	370
803	Arg Asn Ihr Ser Phe Glu Gly Val Thr Gly Pro Val Arg Phe Tyr Asn	370	375	380
804	385	390	395	400
806	Asn Glu Arg Lys Ala Asn Ile Ieu Ile Asn Gln Phe Gln Ieu Gly Gln	405	410	415
807	410	415	420	425
809	Met Glu Lys Ile Gly Glu Tyr His Ser Gln Lys Ser His Ieu Asp Ieu	420	425	430
810	435	440	445	450
812	Ser Ieu Gly Lys Pro Val Lys Itp Val Gly Lys Thr Pro Pro Lys Asp	445	450	455
813	455	460	465	470
815	Arg Thr Ieu Ile Tyr Ile Glu His Ser Gln Val Asn Pro Thr Ile Tyr	475	480	485
816	485	490	495	500
818	Ile Val Ser Ala Ser Ala Ser Val Ile Gly Val Ile Ile Ala Thr Val	495	500	505
819	505	510	515	520
821	Phe Ieu Ala Phe Asn Ile Lys Tyr Arg Asn Gln Arg Tyr Ile Lys Met	515	520	525
822	525	530	535	540
824	Ser Ser Pro His Ieu Asn Asn Ieu Ile Val Gly Cys Met Ile Thr	540	545	550
825	545	550	555	560
827	Tyr Ieu Ser Ile Ile Phe Ieu Gly Ieu Asp Thr Thr Ieu Ser Ser Val	555	560	565
828	565	570	575	580
830	Ala Ala Phe Pro Tyr Ile Cys Thr Ala Arg Ala Itp Ile Ieu Met Ala	580	585	590
831	585	590	595	600
833	Gly Phe Ser Ieu Ser Phe Gly Ala Met Phe Ser Lys Thr Itp Arg Val	595	600	605
834	605	610	615	620
836	His Ser Ile Phe Thr Asp Ieu Lys Ieu Asn Lys Lys Val Ile Lys Asp	610	615	620
837	615	620	625	630
839	Tyr Gln Ieu Phe Met Val Val Gly Val Ieu Ieu Ala Ile Asp Ile Ala	625	630	635
840	635	640	645	650
842	Ile Ile Thr Thr Itp Gln Ile Ala Asp Pro Phe Tyr Arg Gln Thr Lys	645	650	655
843	655	660	665	670
845	Gln Ieu Glu Pro Ieu His His Glu Asn Ile Asp Asp Val Ieu Val Ile	670	675	680
846	675	680	685	690
848	Pro Glu Asn Glu Tyr Cys Gln Ser Glu His Met Thr Ile Phe Val Ser	685	690	695
849	695	700	705	710

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962

DATE: 12/06/2000
TIME: 15:14:12

Input Set: A:\LeA34074.txt
Output Set: N:\CRF3\12062000\I715962.raw

351 Ile Ile Tyr Ala Tyr Lys Gly Ieu Leu Leu Val Phe Gly Ala Phe Leu
352 625 630 635 640
353 Ala Itp Glu Thr Arg His Val Ser Ile Pro Ala Ieu Asn Asp Ser Lys
354 645 650 655
355 His Ile Gly Phe Ser Val Tyr Asn Val Phe Ile Thr Cys Leu Ala Gly
356 660 665 670
357 Ala Ala Ile Ser Leu Val Leu Ser Asp Arg Lys Asp Ieu Val Phe Val
358 675 680 685
359 Leu Leu Ser Phe Phe Ile Ile Phe Cys Thr Thr Ala Thr Leu Cys Leu
360 690 695 700
361 Val Phe Val Pro Lys Leu Val Glu Leu Lys Arg Asn Pro Gln Gly Val
362 705 710 715 720
363 Val Asp Lys Arg Val Arg Ala Thr Leu Arg Pro Met Ser Lys Asn Gly
364 725 730 735
365 Arg Arg Asp Ser Ser Val Cys Glu Leu Glu Gln Arg Leu Arg Asp Val
366 740 745 750
367 Lys Asn Thr Asn Cys Arg Phe Arg Lys Ala Leu Met Glu Lys Glu Asn
368 755 760 765
369 Glu Leu Gln Ala Leu Ile Arg Lys Leu Gly Pro Gln Ala Arg Lys Trp
370 770 775 780
371 Ile Asp Gly Val Thr Cys Thr Gly Gly Ser Asn Val Gly Ser Glu Leu
372 785 790 795 800
373 Gln Pro Ile Leu Asn Asp Asp Ile Val Arg Leu Ser Ala Pro Pro Val
374 805 810 815
375 Arg Arg Glu Met Pro Ser Thr Thr Val Thr Glu Met Thr Ser Val Asp
376 820 825 830
377 Ser Val Thr Ser Thr His Val Glu Met Asp Asn Ser Phe Val Ser Val
378 835 840 845
379 Gln Ser Thr Val Met Ala Pro Ser Leu Pro Pro Lys Lys Lys Lys Gln
380 850 855 860
381 Ser Ile Val Glu His His Ser His His Ala Pro Ala Pro Thr Met Met Gln
382 865 870 875 880
383 Pro Ile Gln Gln Gln Leu Gln Gln His Leu Gln Gln His Gln Gln Met
384 885 890 895
385 Gln Gln Gln His Leu Gln Gln Gln His Gln Gln Met Gln Gln Gln
386 900 905 910
387 Gln Gln Gln Gln His His Arg His Leu Glu Lys Arg Asn Ser
388 915 920 925
389 Val Ser Ala Gln Thr Asp Asp Asn Ile Gly Ser Ile Thr Ser Thr Ala
390 930 935 940
391 Gly Lys Arg Ser Gly Gly Asp Cys Ser Ser Met Arg Glu Arg Arg Gln
392 945 950 955 960
393 Ser Thr Ala Ser Arg His Tyr Asp Ser Gly Ser Gln Thr Pro Thr Ala
394 965 970 975
395 Arg Pro Lys Tyr Ser Ser Ser His Arg Asn Ser Ser Thr Asn Ile Ser
396 980 985 990
397 Thr Ser Gln Ser Glu Leu Ser Asn Met Cys Pro His Ser Lys Pro Ser
398 995 1000 1005
399 Thr Pro Ala Val Ile Lys Thr Pro Thr Ala Ser Asp His Arg Arg Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962

DATE: 12/06/2000
LFP: 15:14:12

Input Set: A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

924 1010 1015 1020
925 Ser Met Gly Ser Ala Leu Lys Ser Asn Phe Val Val Ser Gln Ser Asp
E--> 927 1025 1030 1035 1040
929 Leu Ile Asp Thr His Ile Leu Ser His Ala Lys Gln Arg Gln Ser Pro
930 1045 1050 1055
932 Arg Asn Tyr Ala Ser Pro Gln Arg Cys Ala Glu His His Gly Gly His
933 1060 1065 1070
935 Gly Met Thr Tyr Asp Pro Asn Thr Ile Ser Pro Ile Gln Arg Ser Val
936 1075 1080 1085
938 Ser Glu Lys Asn Arg Asn Lys His Arg Pro Lys Pro Gln Lys Gly Thr
939 1090 1095 1100
941 Val Cys Gln Ser Glu Thr Asp Ser Glu Arg Gln Arg Asp Pro Pro Pro
E--> 942 1095 1110 1115 1120
944 Asn Ser Gln Pro Cys Val Gln Pro Arg Lys Val Ser Arg Ser Ser Asn
945 1125 1130 1135
947 Ile Gln His Ala Ala His His His Ser Ser Pro Asn Val Ala Pro Asp
948 1140 1145 1150
950 Lys Gln Arg Ser Arg Gln Arg Gly Lys Gln Asp Ser Ser Ile Tyr Gly
951 1155 1160 1165
953 Ala Ser Ser Glu Thr Gln Leu Leu Glu Gly Gln Ile Ala Ile Leu Pro
954 1170 1175 1180
956 Ile Phe Arg Lys Leu Leu Thr Gln Lys Ser Pro Asn Tyr Arg Gly Arg
E--> 957 1185 1190 1195 1200
959 Ser Ala Val Gly Gln Ser Cys Pro Asn Ile Ser Ile Lys Cys Asp Ile
960 1205 1210 1215
962 Val Glu Tyr Leu
963 1220
1306 <210> SEQ ID NO: 6
1307 <211> LENGTH: 1305
1308 <212> TYPE: PRT
1309 <213> ORGANISM: Drosophila melanogaster
1311 <400> SEQUENCE: 6
1312 Met Arg Ile Ile Gln Pro Val Gln Gly Thr Arg Tyr Gly Pro Trp Pro
1313 1 5 10 15
1315 Ala Val Gly Leu Arg Leu Val Leu Ala Leu Ala Trp Ala Thr Ser Ala
1316 20 25 30
1318 Ala Ala Ala Met Gln Ser Ser Ala Gln Leu Gln Ala Leu Gly His Glu
1319 35 40 45
1321 Ala Ile Arg Pro Gly Ala Ala Ser Ile Ser Thr Ser Pro Ser Ser
1322 50 55 60
1324 Ser Pro Pro Gly Glu Ser Ala Ser Thr Val Ile Ala Gly Gly Thr Pro
1325 65 70 75 80
1327 Ile Pro Pro Arg Ser Asp Ile Lys Tyr Lys Arg Thr Lys Val Lys Arg
1328 85 90 95
1330 Arg Gln Gln Arg Leu Asn Ser His Ser Asn Leu Pro Gly Ser Thr Asn
1331 100 105 110
1333 Ala Ser His Ala His His Leu Leu Asn Leu Pro Pro Arg Gln Arg Tyr
1334 115 120 125
1336 Leu Lys Val Asn Gln Val Phe Glu Ser Glu Arg Arg Met Ser Pro Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962
FILE: 12/06/2000
TIME: 15:14:13

Input Set : A:\LeA34074.txt
Output Set: H:\CRF3\12062000\1715962.raw

1337 130 135 140
1338 Glu Met Gln Arg Asn His Gly Lys Ile Val Leu Leu Gly Leu Phe Gln
1340 145 150 155 160
1342 Leu Ser Ile Ser Arg Gly Pro Arg Pro Asp Gly Leu Ser Glu Leu Gly
1343 165 170 175
1345 Ala Ala Ile Met Ala Val Gln His Ile Asn Arg Lys Arg Leu Leu Pro
1346 180 185 190
1348 Gly Tyr Thr Ile Glu Leu Val Thr Asn Asp Ile Gln Cys Asp Pro Gly
1349 195 200 205
1351 Val Gly Val Asp Arg Phe Phe His Ala Ile Tyr Ile Gln Pro Ser Thr
1352 210 215 220
1354 Arg Met Val Met Leu Leu Gly Ser Ala Cys Ser Glu Val Thr Glu Ser
1355 225 230 235 240
1357 Leu Ala Lys Val Val Pro Tyr Trp Asn Ile Val Gln Val Ser Phe Gly
1358 245 250 255
1360 Ser Thr Ser Pro Ala Leu Ser Asp Arg Arg Glu Phe Pro Tyr Phe Tyr
1361 260 265 270
1363 Arg Thr Val Ala Pro Asp Ser Ser His Asn Pro Ala Arg Ile Ala Phe
1364 275 280 285
1366 Ile Arg Lys Phe Gly Trp Gly Thr Val Thr Thr Phe Ser Gln Asn Glu
1367 290 295 300
1369 Glu Val His Ser Leu Ala Val Asn Asn Leu Val Ile Gln Leu Glu Ala
1370 305 310 315 320
1372 Ala Asn Ile Ser Cys Ala Ala Thr Ile Ile Phe Ala Ala Thr Asp Phe
1373 325 330 335
1375 Lys Glu Gln Ile Leu Leu Leu Arg Glu Thr Asp Thr Arg Ile Ile Ile
1376 340 345 350
1378 Gly Ser Phe Ser Gln Glu Leu Ala Pro Gln Ile Leu Cys Glu Ala Tyr
1379 355 360 365
1381 Arg Leu Arg Met Phe Gly Ala Asp Tyr Ala Trp Ile Leu His Gln Ser
1382 370 375 380
1384 Met Gly Ala Pro Trp Trp Pro Asp Gln Arg Thr Ala Cys Ser Asn His
1385 385 390 395 400
1387 Glu Leu Gln Leu Ala Val Glu Asn Leu Ile Val Val Ser Thr His Asn
1388 405 410 415
1390 Ser Ile Val Gly Asn Asn Val Ser Tyr Ser Gly Leu Asn Asn His Met
1391 420 425 430
1393 Phe Asn Ser Gln Leu Arg Lys Glu Ser Ala Gln Phe His Gly Gln Asp
1394 435 440 445
1396 GLY Phe Gly Ser Gly Tyr Gly Pro Arg Ile Ser Ile Ala Ala Thr Gln
1397 450 455 460
1399 Ser Asp Ser Arg Arg Arg Arg Arg Gly Val Val Gly Thr Ser Gly
1400 465 470 475 480
1402 Gly His Leu Phe Pro Glu Ala Ile Ser Gln Tyr Ala Pro Gln Thr Tyr
1403 485 490 495
1405 Asp Ala Val Trp Ala Ile Ala Leu Ala Leu Arg Ala Ala Glu Glu His
1406 500 505 510
1408 Trp Arg Arg Asn Glu Glu Gln Ser Lys Leu Asp Gly Phe Asp Tyr Thr
1409 515 520 525

RAW SEQUENCE LISTING
PCT/US APPLICATION: US/09/715,962

DATE: 12/30/2000
TIME: 11:14:13

Input Set: A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

1411 Arg Ser Asp Met Ala Trp Glu Phe Leu Gln Gln Met Gly Ile Leu His
1412 530 535 540
1414 Phe Ile Gly Val Ser Gln Pro Val Ser Phe Ser Gly Pro Asp Arg Val
1415 545 550 555 560
1417 Gly Thr Ile Ala Phe Tyr Gln Ile Gln Arg Gly Leu Leu Glu Pro Val
1418 565 570 575
1420 Ala Leu Tyr Ile Pro Ala Ile Asp Ala Leu Asp Phe Arg Cys Pro Arg
1421 580 585 590
1422 Cys Arg Pro Val Lys Ile His Ser Gly Gln Val Pro Ile Ala Lys Arg
1424 595 600 605
1426 Val Phe Lys Leu Arg Val Ala Thr Ile Ala Pro Leu Ala Phe Tyr Thr
1427 610 615 620
1429 Ile Ala Ile Leu Ser Ser Val Gly Ile Ala Leu Ala Ile Thr Phe Leu
1430 625 630 635 640
1432 Ala Phe Asn Leu His Phe Arg Lys Leu Lys Ala Ile Lys Leu Ser Ser
1433 645 650 655
1435 Pro Lys Leu Ser Asn Ile Thr Ala Val Gly Cys Ile Phe Val Tyr Ala
1436 660 665 670
1438 Thr Val Ile Leu Leu Gly Leu Asp His Ser Thr Leu Pro Ser Ala Glu
1439 675 680 685
1441 Asp Ser Phe Ala Thr Val Cys Ile Ala Arg Val Tyr Leu Leu Ser Ala
1442 690 695 700
1444 Gly Phe Ser Leu Ala Phe Gly Ser Met Phe Ala Lys Thr Tyr Arg Val
1445 705 710 715 720
1447 His Arg Ile Phe Thr Arg Thr Gly Ser Val Phe Lys Asp Lys Met Leu
1448 725 730 735
1450 Gln Asp Ile Gln Ile Ile Leu Val Gly Gly Leu Leu Val Asp
1451 740 745 750
1453 Ala Leu Leu Val Thr Leu Ile Val Val Thr Asp Pro Met Gln Arg His
1454 755 760 765
1456 Leu His Asn Leu Ile Leu Glu Ile Ser Ala Thr Asp Arg Ser Val Val
1457 770 775 780
1459 Tyr Gln Pro Gln Val Glu Val Cys Arg Ser Gln His Thr Gln Thr Trp
1460 785 790 795 800
1462 Leu Ser Val Ile Ile Gly Leu Leu Leu Val Val Gly Val
1463 805 810 815
1465 Tyr Met Ala Trp Glu Thr Arg His Val Lys Ile Pro Ala Leu Asn Asp
1466 820 825 830
1468 Ser Gln Tyr Ile Gly Val Ser Val Tyr Ser Val Val Thr Thr Ser Ala
1469 835 840 845
1471 Ile Val Val Val Leu Ala Asn Leu Ile Ser Glu Arg Val Thr Leu Ala
1472 850 855 860
1474 Phe Ile Thr Ile Thr Ala Leu Ile Leu Thr Ser Thr Thr Ala Thr Leu
1475 865 870 875 880
1477 Cys Leu Leu Phe Ile Pro Lys Leu His Asp Ile Trp Ala Arg Asn Asp
1478 885 890 895
1480 Ile Ile Asp Pro Val Ile His Ser Met Gly Leu Lys Met Gln Cys Asn
1481 900 905 910
1483 Thr Arg Arg Phe Val Val Asp Asp Arg Arg Glu Leu Gln Tyr Arg Val

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/715,962

DATE: 12/06/2000
FILE: 15:14:13

Input Set: A:\LeA34074.txt
Output Set: N:\CRF3\12062000\1715962.raw

1464 915 920 925
1486 Glu Val Cln Asn Arg Val Tyr Ile Lys Glu Ile Ile Ala Leu Asp Ala
1487 930 935 940
1490 Glu Ile Arg Lys Leu Glu Arg Ala Leu Ile Glu Ser Glu Leu Thr Ile Ile
1491 945 950 955 960
1492 Ser Thr Thr Ser Ser Ser Thr Ser Leu Leu Thr Gly Gly Gly His
1493 965 970 975
1495 Leu Lys Pro Glu Leu Thr Val Thr Ser Gly Ile Ser Gln Thr Pro Ala
1496 980 985 990
1498 Ala Ser Lys Asn Arg Thr Pro Ser Ile Ser Gly Ile Leu Pro Asn Leu
1499 995 1000 1005
1501 Leu Leu Ser Val Leu Pro Pro-Val Ile Pro Arg Ala Ser Trp Pro Ser
1502 1010 1015 1020
1504 Ala Gln Tyr Met Gln Ile Pro Met Arg Arg Ser Val Thr Phe Ala Ser
E--> 1505 1025 1030 1035 1040
1507 Gln Pro Gln Leu Glu Glu Ala Cys Leu Pro Ala Gln Asp Leu Ile Asn
1508 1045 1050 1055
1510 Leu Arg Leu Ala His Gln Gln Ala Thr Glu Ala Lys Thr Gly Leu Ile
1511 1060 1065 1070
1513 Asn Arg Leu Arg Gly Ile Phe Ser Arg Thr Thr Ser Ser Asn Lys Gly
1514 1075 1080 1085
1516 Ser Thr Ala Ser Leu Ala Asp Gln Lys Gly Leu Lys Ala Ala Phe Lys
1517 1090 1095 1100
1519 Ser His Met Gly Leu Phe Thr Arg Leu Ile Pro Ser Ser Gln Thr Ala
E--> 1520 105 1110 1115 1120
1522 Ser Cys Asn Ala Ile Tyr Asn Asn Pro Asn Gln Asp Ser Ile Pro Ser
1523 1125 1130 1135
1525 Glu Ala Ser Ser His Pro Asn Gly Asn His Leu Lys Pro Ile His Arg
1526 1140 1145 1150
1528 Gly Ser Leu Thr Lys Ser Gly Thr His Leu Asp His Leu Thr Lys Asp
1529 1155 1160 1165
1531 Pro Asn Phe Leu Pro Ile Pro Thr Ile Ser Gly Gly Gln Gln Gly Asp
1532 1170 1175 1180
1534 Gln Thr Leu Gly Gly Lys Tyr Val Lys Leu Leu Gln Thr Lys Val Asn
E--> 1535 185 1190 1195 1200
1537 Phe Gln Leu Pro Ser Asn Arg Arg Pro Ser Val Val Gln Gln Pro Pro
1538 1205 1210 1215
1540 Ser Leu Arg Glu Arg Val Arg Gly Ser Pro Arg Phe Pro His Arg Ile
1541 1220 1225 1230
1543 Leu Pro Pro Thr Cys Ser Leu Ser Ala Leu Ala Glu Ser Glu Asp Arg
1544 1235 1240 1245
1546 Pro Gly Asp Ser Thr Ser Ile Leu Gly Ser Cys Lys Ser Ile Pro Arg
1547 1250 1255 1260
1549 Ile Ser Leu Gln Glu Val Thr Ser Gly Gly Thr Trp Lys Ser Met Glu
E--> 1550 265 1270 1275 1280
1552 Thr Val Gly Lys Ser Arg Leu Ser Leu Gly Asp Ser Gln Glu Glu
1553 1285 1290 1295
1555 Gln Gln Ala Pro Ala Asn Gly Thr Glu
1556 1300 1305

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/715,962
DATE: 12/06/2000
TIME: 12:14:44

Input Set: A:\LeAJ4074.txt
Output Set: N:\CRF3\12062000\1715962.raw

L:13 H:279 C: Current Application Number differs. Replaced Application Number
L:19 H:271 C: Current Filing Date differs. Replaced Current Filing Date
L:12 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
H:32 Repeated in SeqNo:4
L:1505 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
H:332 Repeated in SeqNo:6